

## Res. Asst. AHMET ÇAĞRI ARICAN

### Personal Information

**Email:** ahmetcagriarican@gazi.edu.tr

**Web:** <https://avesis.gazi.edu.tr/ahmetcagriarican>

**Address:** Gazi Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, Kat:4 Eti Mah. Yükseliş Sokak, No:5, 06570, Maltepe, ANKARA

### Education Information

Doctorate, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2017 - Continues

Post Graduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 2014 - 2017

Under Graduate, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2009 - 2014

### Dissertations

Post Graduate, Durum bağımlı Riccati denklemi tabanlı optimal kontrolcü tasarımı ve üç serbestlik dereceli helikopter uygulaması, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2017

### Research Areas

Nonlinear Systems, Stability, Optimal Control, Machine Theory and Dynamics, System Dynamics and Control, Robotics, Mechatronics, Modeling and Simulation of Dynamic Systems

### Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - Continues

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **An update algorithm design using moving Region of Attraction for SDRE based control law**

ÇOPUR E. H. , ARICAN A. Ç. , Ozcan S., SALAMCI M. U.

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.356, no.15, pp.8388-8413, 2019 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Controller Designs for Nonlinear Systems with Application to 3 DOF Helicopter Model**

KOCAGİL B. M. , ARICAN A. Ç. , Güzey Ü. M. , Özcan S., SALAMCI M. U.

Gazi University Journal of Science Part A: Engineering and Innovation, vol.4, no.3, pp.47-66, 2017 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Modified SDRE-based Sub-optimal Hypersurface Design in SMC**  
Ozcan S., Copur E. H. , ARICAN A. Ç. , SALAMCI M. U.  
21st IFAC World Congress on Automatic Control - Meeting Societal Challenges, ELECTR NETWORK, 11 - 17 July 2020, vol.53, pp.6250-6255
- II. **Experiment of Sliding Mode Control with Nonlinear Sliding Surface Design for a 3-DOF Helicopter Model**  
Guzey U. M. , ÇOPUR E. H. , Ozcan S., ARICAN A. Ç. , KOCAGİL B. M. , SALAMCI M. U.  
27th International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo, Bosnia And Herzegovina, 10 - 13 October 2019
- III. **Adaptive Control of a 3 DoF Helicopter with Linear and Nonlinear Reference Models**  
KOCAGİL B. M. , Ozcan S., ARICAN A. Ç. , Guzey U. M. , ÇOPUR E. H. , SALAMCI M. U.  
6th International Conference on Control Engineering and Information Technology (CEIT), İstanbul, Turkey, 25 - 27 October 2018
- IV. **MRAC of a 3-DoF Helicopter with Nonlinear Reference Model**  
KOCAGİL B. M. , Ozcan S., ARICAN A. Ç. , Guzey U. M. , ÇOPUR E. H. , SALAMCI M. U.  
26th Mediterranean Conference on Control and Automation (MED), Zadar, Croatia, 19 - 22 June 2018, pp.278-283
- V. **Linear and Nonlinear Optimal Controller Design for a 3 DOF Helicopter**  
ARICAN A. Ç. , Ozcan S., KOCAGİL B. M. , Guzey U. M. , ÇOPUR E. H. , SALAMCI M. U.  
19th International Carpathian Control Conference (ICCC), Szilvasvarad, Hungary, 28 - 31 May 2018, pp.185-190
- VI. **Suboptimal Control of a 3 DOF Helicopter with State Dependent Riccati Equations**  
ARICAN A. Ç. , Ozcan S., Guzey U. M. , KOCAGİL B. M. , SALAMCI M. U.  
XXVI International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo, Bosnia And Herzegovina, 26 - 28 October 2017

## Supported Projects

KOCAGİL B. M. , ARICAN A. Ç. , SALAMCI M. U. , Project Supported by Other Official Institutions, Optimum Nonlinear Kazanç Katsayısı Kullanılarak Helikopter Rotor Kontrolcü Tasarımı, 2015 - 2018

## Citations

Total Citations (WOS):8

h-index (WOS):2

## Scholarships

2211-A Genel Yurt İçi Doktora Bursu, TUBITAK, 2018 - Continues

## Awards

Arıcan A. Ç. , TÜBİTAK Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı Yayın Teşvik Ödülü, Türkiye Bilimsel Ve Teknolojik Araştırma Kurumu, October 2019